



AWWARF Research Foundation FACT SHEET

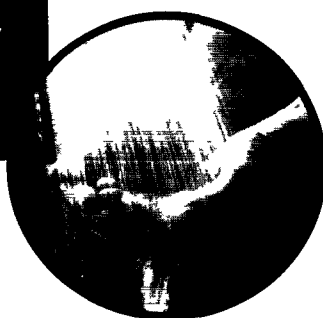
AWWARF'S RESEARCH PROGRAM FOCUSES ON SIX KEY ISSUES

- Protecting the drinking water consumer from microbial risk
- Protecting the drinking water consumer from adverse health effects due to chemicals
- Improving utility management to obtain optimum water quality and system reliability
- Improving utility infrastructure for the reliable delivery of high quality drinking water to the customer's tap
- Providing science and technology to the drinking water community to improve public and consumer relations
- Ensuring access to, and wise use of, water resources and protection of the environment

Voluntary Subscriptions

AWWARF's Research Subscription Program serves as a vehicle for the drinking water community to collectively underwrite a centralized research effort. Voluntary subscriptions by water utilities, based on annual water production, provide most of the funding for AWWARF's research program. Subscription opportunities also exist for consultants, manufacturers, and universities.

- **Number of subscribers:** 1,005 utilities, 51 consultants, 22 manufacturers
- **Population served by utility subscribers:** 175 million
- **Geographical distribution of subscribers:** 48 states plus District of Columbia, 9 Canadian provinces, Australia, Czech Republic, France, Great Britain, Netherlands, New Zealand



Responsive Research Program

A grass roots planning process ensures practical research that responds to the priorities of AWWARF subscribers and the drinking water community at large. All research is done under contract by water utilities, universities, private research organizations, consulting engineering firms, and other qualified organizations.

- **Estimated 1999 AWWARF research budget:** \$17.1 million
- **Value of 1998 research agenda, including in-kind contributions:** \$21.3 million
- **Research funded through 1998 (with in-kind):** \$144 million
- **Number of research projects funded:** 514
- **Number of published reports:** 300
- **Number of ongoing projects:** 285
- **Number of research contractors:** 149

Wise Project Selection

Solicited Research. AWWARF's Research Advisory Council, comprising technical experts in all facets of drinking water, evaluates the research needs identified by the drinking water community and recommends a prioritized research agenda to the Board of Trustees for final project selection and funding. Because most of the trustees are water utility managers, they are able to evaluate the applicability of the proposed research and ensure the efficient use of the foundation's resources.

Unsolicited Research. The drinking water community also benefits from innovative studies put forward by researchers. Each year, several unsolicited proposals are funded. The Unsolicited Proposal Review Committee evaluates the proposals and recommends projects to the board for consideration. Guidelines for submitting proposals are available on our website (www.awwarf.com).

Tailored Collaboration. The Tailored Collaboration Program enables AWWARF utility subscribers to leverage funding for research of a specialized or regional nature. To date, the foundation has provided matching funds for 22 studies. Proposed projects are evaluated by the Tailored Collaboration Review Committee and forwarded to the board for final selection and funding. For more information on the program, call Ruth Hund, Senior Project Manager (303) 347-6124, or visit our website (www.awwarf.com).

Project Advisory Committees. Each AWWARF project is assigned a Project Advisory Committee (PAC), consisting of experts in the field (at least one of whom works for a subscribing utility), to follow the project through to completion. The PAC helps develop the request for proposals, evaluates the proposals submitted, selects the contractor, and monitors the researcher's work throughout the study.

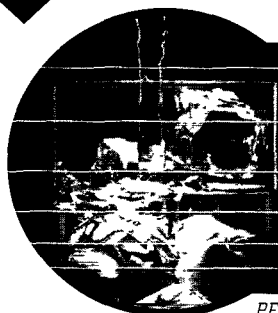
Priority Research Areas

The 1999 research program is heavily weighted toward microbial (12 projects) and infrastructure (9 projects) issues. Seven studies focus on the occurrence and removal of chemical contaminants, such as disinfection by-products, pharmaceutical compounds, and MTBE. The remaining 11 studies approved in January cover such diverse subjects as development of critical monitoring sensors and expert systems for water quality management, communication with customers, and aquifer storage and recovery.

MISSION:

*To advance the science of water
to improve the quality of life.*

AWWA Research Foundation **FACT SHEET**



- Treatment - 35%
- Distribution - 17%
- Monitoring & Analysis - 14%
- Management - 14%
- Resources - 10%
- Health Effects - 10%

PERCENT SPENT ON RESEARCH
BY CATEGORY (1986-1998)

AWWARF SOLICITED RESEARCH PROCESS

December

Subscribers prioritize issues

March

Research chairs identify issues for multi-year research agenda, determine objectives, and appoint issue group chairs

April

Issue group chairs and staff appoint issue groups

May to August

Issue groups develop multi-year research agendas

September

Staff compiles multi-year research agendas and other subscriber priorities into strategic research plan (SRP)

October

Research Advisory Council uses SRP and input from others to develop and recommend research agenda for coming year

January

Annual research agenda is approved by Board of Trustees

February

Project Advisory Committees appointed and requests for proposals finalized

May and July

Contractors selected and projects initiated

Staff and Volunteers

The Research Foundation was established in 1966. Its governing board includes representatives from three major segments of the drinking water community: the Association of Metropolitan Water Agencies, the National Association of Water Companies, and the American Water Works Association.

AWWARF's staff of 43 includes professionals with expertise in biological sciences, chemistry, engineering, management, and communications.

The high level of research activity sponsored by the foundation would not be possible without the efforts of more than 500 volunteers, who currently serve on AWWARF committees and councils. This pool of expertise allows the foundation to provide oversight for a variety of topical areas.

Subscriber Benefits

In addition to advancing the science of water, AWWARF subscribers receive a number of other benefits, including free research reports, complimentary registration at technology transfer conferences, and access to the foundation's network of researchers and drinking water experts. Subscribers are encouraged to submit research suggestions, participate on project advisory committees, and take part in research projects. For more information on the Research Subscription Program, please call (303) 347-6128.

Spreading the Word

AWWARF's research program is not complete until the results are put to work in the drinking water community. The foundation disseminates the latest advances in drinking water science through reports, periodicals, conferences, videotapes, and its World Wide Web site (www.awwarf.com). The Research Applications Program helps subscribers implement AWWARF research findings and demonstrates the benefits of participating in the research program.

Periodicals

- **Drinking Water Research** (bimonthly magazine)
- **Research Direct** (monthly fax newsletter)
- **Research et al.** (semiannual newsletter)
- **Research Applications** (technical update, as needed)

Videotape Reports

The Research Foundation has 12 video reports on various research topics available on loan. For more information, call (303) 347-6243.

Project Reports

A list of reports is available from the foundation upon request.



AWWA
**Research
Foundation**

Advancing the Science of Water™

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